Danil Prokhorov

List of Publications by Year in descending order

48 papers	2,349 citations	623734 14 h-index	713466 21 g-index
49 all docs	49 docs citations	49 times ranked	2351 citing authors

#	Article	IF	Citations
1	MUlti-Store Tracker (MUSTer): A cognitive psychology inspired approach to object tracking. , 2015, , .		470
2	Feature Pyramid and Hierarchical Boosting Network for Pavement Crack Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1525-1535.	8.0	460
3	Deep Neural Network for Structural Prediction and Lane Detection in Traffic Scene. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 690-703.	11.3	326
4	Model-Free Real-Time EV Charging Scheduling Based on Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2019, 10, 5246-5257.	9.0	300
5	Tracking via Robust Multi-task Multi-view Joint Sparse Representation. , 2013, , .		116
6	Robust Multitask Multiview Tracking in Videos. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2874-2890.	11.3	65
7	Requirements-Driven Test Generation for Autonomous Vehicles With Machine Learning Components. IEEE Transactions on Intelligent Vehicles, 2020, 5, 265-280.	12.7	63
8	Challenges in Perception and Decision Making for Intelligent Automotive Vehicles: A Case Study. IEEE Transactions on Intelligent Vehicles, 2016, 1, 20-32.	12.7	57
9	A Convolutional Learning System for Object Classification in 3-D Lidar Data. IEEE Transactions on Neural Networks, 2010, 21, 858-863.	4.2	42
10	Simple and Fast Calculation of the Second-Order Gradients for Globalized Dual Heuristic Dynamic Programming in Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1671-1676.	11.3	41
11	Tracking Using Multilevel Quantizations. Lecture Notes in Computer Science, 2014, , 155-171.	1.3	40
12	Merging in Congested Freeway Traffic Using Multipolicy Decision Making and Passive Actor-Critic Learning. IEEE Transactions on Intelligent Vehicles, 2019, 4, 287-297.	12.7	38
13	An Equivalence Between Adaptive Dynamic Programming With a Critic and Backpropagation Through Time. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 2088-2100.	11.3	35
14	Cross-Domain Traffic Scene Understanding: A Dense Correspondence-Based Transfer Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 745-757.	8.0	33
15	Multi-Level Contextual RNNs With Attention Model for Scene Labeling. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3475-3485.	8.0	28
16	Where-what network 1: “Where” and “what” assist each other through top-down connections. , 2008, , .		27
17	Application of an Effective Data-Driven Approach to Real-time time Fault Diagnosis in Automotive Engines. , 2007, , .		15
18	Learning to tell brake and turn signals in videos using CNN-LSTM structure. , 2017, , .		15

#	Article	IF	Citations
19	Differential Features for Pedestrian Detection: A Taylor Series Perspective. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2913-2922.	8.0	14
20	Toyota Prius HEV neurocontrol. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	12
21	Fast construction of correcting ensembles for legacy Artificial Intelligence systems: Algorithms and a case study. Information Sciences, 2019, 485, 230-247.	6.9	12
22	Toward effective combination of off-line and on-line training in ADP framework. , 2007, , .		11
23	Learning Deep Neural Network Controllers for Dynamical Systems with Safety Guarantees: Invited Paper. , 2019, , .		11
24	Reachability analysis of deep ReLU neural networks using facet-vertex incidence. , 2021, , .		11
25	A Data-Driven Approach for Real-Time Residential EV Charging Management. , 2018, , .		10
26	Safe Navigation in Human Occupied Environments Using Sampling and Control Barrier Functions. , 2021, , .		10
27	Clipping in Neurocontrol by Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1909-1920.	11.3	9
28	Neural Networks in Automotive Applications. Studies in Computational Intelligence, 2008, , 101-123.	0.9	9
29	Learning to tell brake lights with convolutional features. , 2016, , .		8
30	Risk-Bounded Control Using Stochastic Barrier Functions. , 2021, 5, 1831-1836.		8
31	Finite form realizations of adaptive control algorithms. , 2003, , .		7
32	Adaptive Classification of Temporal Signals in Fixed-Weight Recurrent Neural Networks: An Existence Proof. Neural Computation, 2008, 20, 2564-2596.	2.2	5
33	Human Model-Based Active Driving System in Vehicular Dynamic Simulation. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1903-1914.	8.0	5
34	Risk estimator for control in intelligent transportation system. , 2009, , .		4
35	Detection and motion planning for roadside parked vehicles at long distance. , 2015, , .		4
36	RGB-D Scene Labeling with Multimodal Recurrent Neural Networks. , 2017, , .		4

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37	Force Anticipation and Its Potential Implications on Feedforward and Feedback Human Motor Control. Human Factors, 2021, 63, 647-662.	3.5	4
38	Multi-agent framework for remote diagnostics. , 2010, , .		3
39	Spatial Prior for Nonparametric Road Scene Parsing. , 2015, , .		3
40	A benchmark for cross-weather traffic scene understanding. , 2016, , .		2
41	Specification-guided Software Fault Localization for Autonomous Mobile Systems. , 2020, , .		2
42	Unsupervised adaptive optimization of motion-sensitive systems guided by measurement uncertainty. , 2007, , .		1
43	A self-learning sensor fusion system for object classification. , 2009, , .		1
44	Toward Next Generation of Autonomous Systems with AI. , 2019, , .		1
45	Intelligent Systems for Modeling and Control: Advances in Design and Validation. , 2008, , .		0
46	Cross datasets vegetation detection with spatial prior and local context. , 2016, , .		0
47	Application of Simulation-Based Methods on Autonomous Vehicle Control with Deep Neural Network: Work-in-Progress. , 2020, , .		0
48	Risk-bounded Control using Stochastic Barrier Functions. , 2021, , .		0